

GBJ/KBJ50005 thru GBJ/KBJ5010

GLASS PASSIVATED BRIDGE RECTIFIERS	<p>REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 50 Amperes</p> <p style="text-align: center;">GBJ</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ● Rating to 1000V PRV ● Ideal for printed circuit board ● Low forward voltage drop, high current capability ● Reliable low cost construction utilizing molded plastic technique results in inexpensive product ● The plastic material has UL flammability classification 94V-0 	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBJ/KBJ 50005	GBJ/KBJ 5001	GBJ/KBJ 5002	GBJ/KBJ 5004	GBJ/KBJ 5006	GBJ/KBJ 5008	GBJ/KBJ 5010	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	30	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @ T _c =100°C (w without heatsink)	I _(AV)	50.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	400								A
Maximum Forward Voltage at 25A DC	V _F	1.1								V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10								uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	510								A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	85								pF
Typical Thermal Resistance (Note2)	R _{θJC}	0.6								°C/W
Operating Temperature Range	T _J	-55to+150								°C
Storage Temperature Range	T _{STG}	-55to+150								°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 300mm*300mm*1.6mm cu plate heatsink.

